

NDDOT Stormwater Training and Special Provisions



Stormwater Training and Certification Program



NDDOT Stormwater Training and Certification Program

Two Course Types

- Design
- Construction

Training

Certification



Special Provisions

SP0003(14)

Temporary Erosion and Sediment Best Management Practices

SPXXXXXX

Temporary Stream Diversions

SP03(14)

Temporary Erosion and Sediment Best Management Practices

- All Projects Greater Than One Acre
- Defines Contractor Responsibility

SPxxxxxx

Temporary Stream Diversions

General Requirements for things found in all diversion types

Specific Requirements for pieces of diversions that may be applicable

Contractor develops a plan based upon the situation and diversion type

Temporary Stream Diversions

Upstream water
quality = Downstream
water quality

Maintain Normal Flow

Large Risk in
Extremely
Environmentally
Sensitive Areas



Temporary Stream Diversions

Stream Diversion =
Stream

Minimize impacts

Negates other work if
done wrong



Culvert Extensions as of January 20th, 2015

May change from this version

Also one similar created for new construction

Traffic Bypasses may be included in the future



General Requirements

Construct using a dike and a combination of the items listed

Place stockpiles and excavated material \geq 200 feet away

Work Area Dewatering requirements



Plan

Submit a Temporary Stream Diversion Plan with SWPPP.

Include provisions for:

- Preventing sediment accumulation

- Concrete waste control

- Construction debris control



Types of Diversions

Pipe Diversion

Suspended Pipe
Diversion

Pipe Diversion

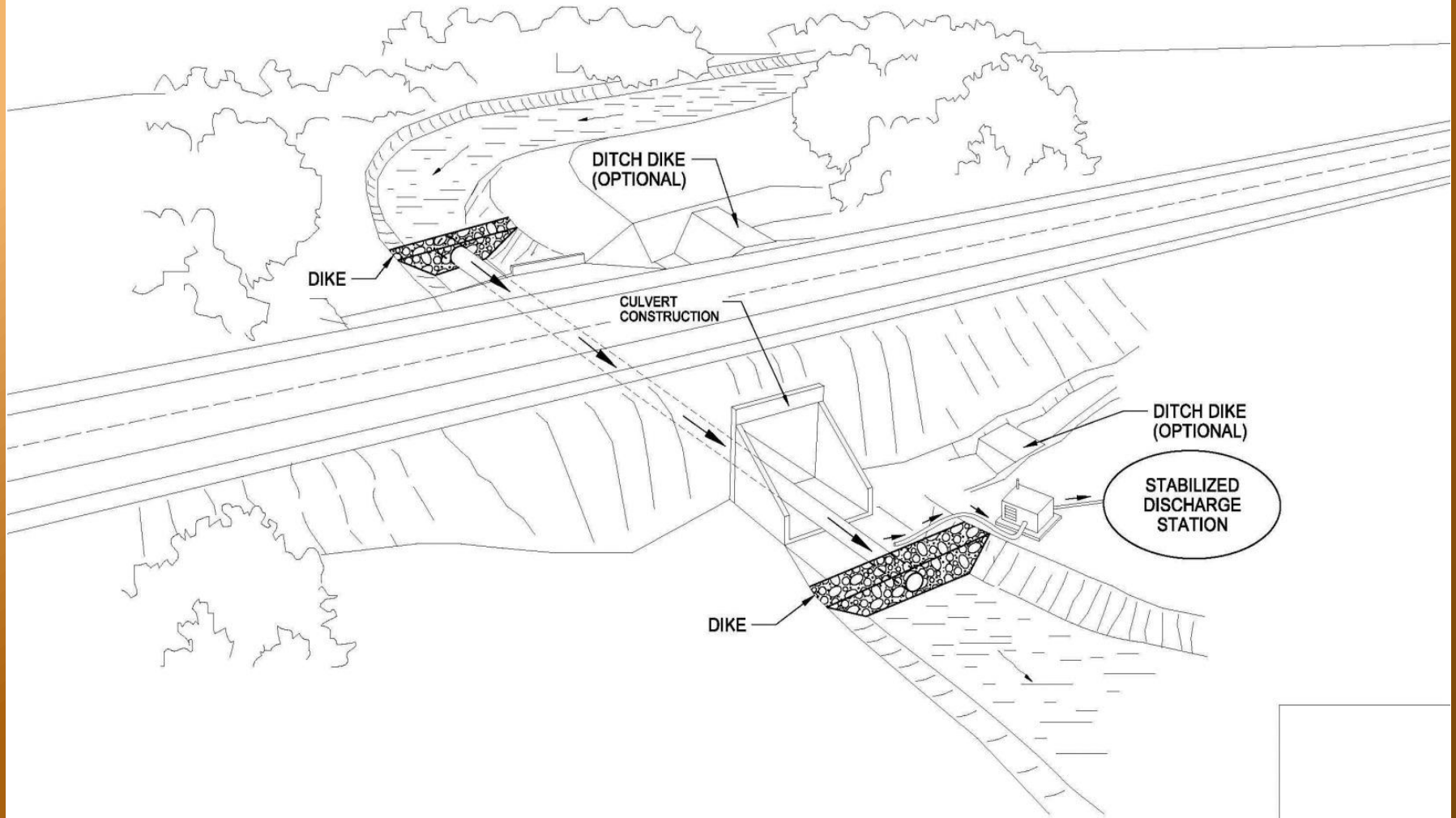
Channel Diversion

Pump Diversion

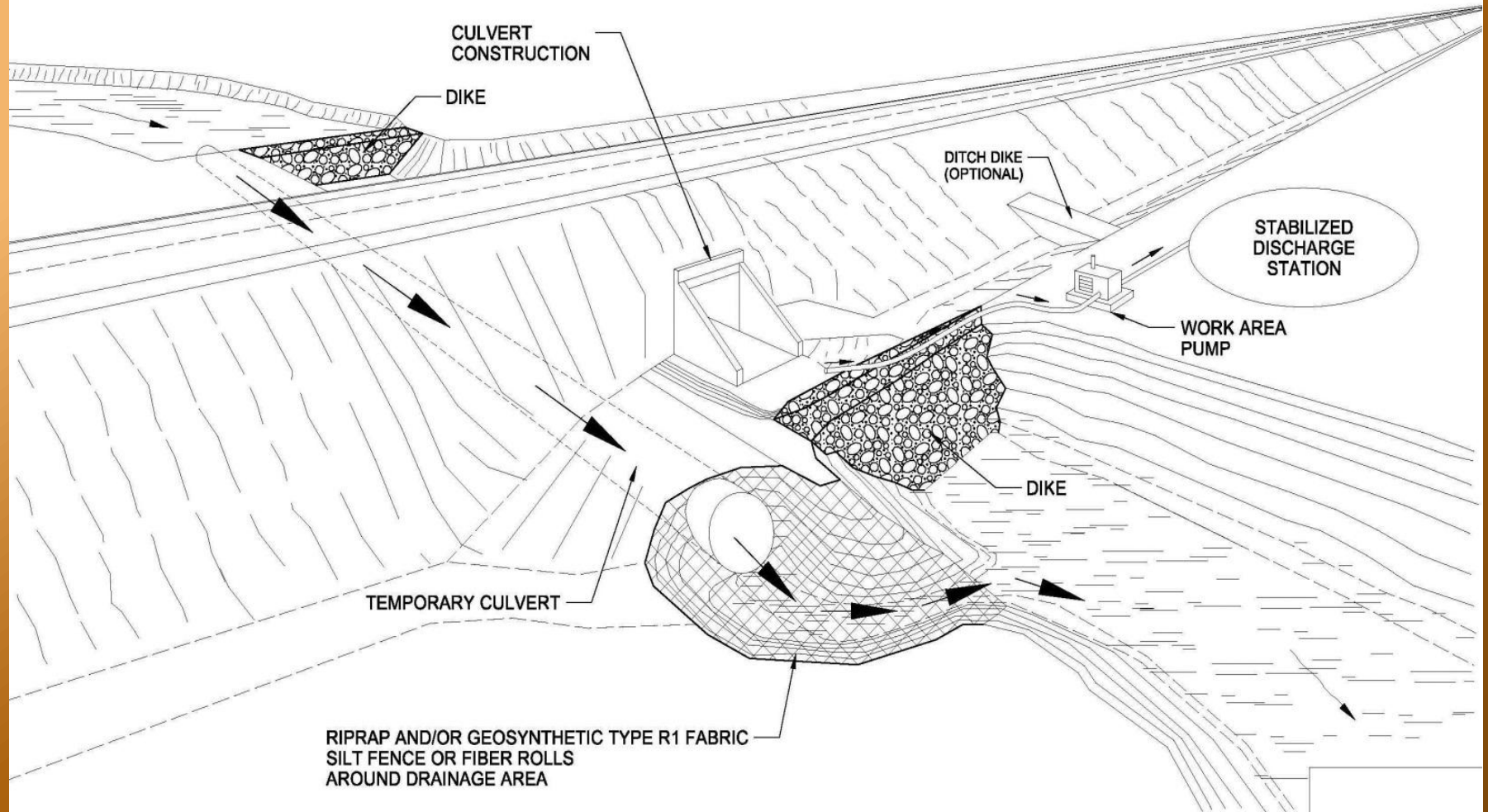
Existing Cell or Culvert



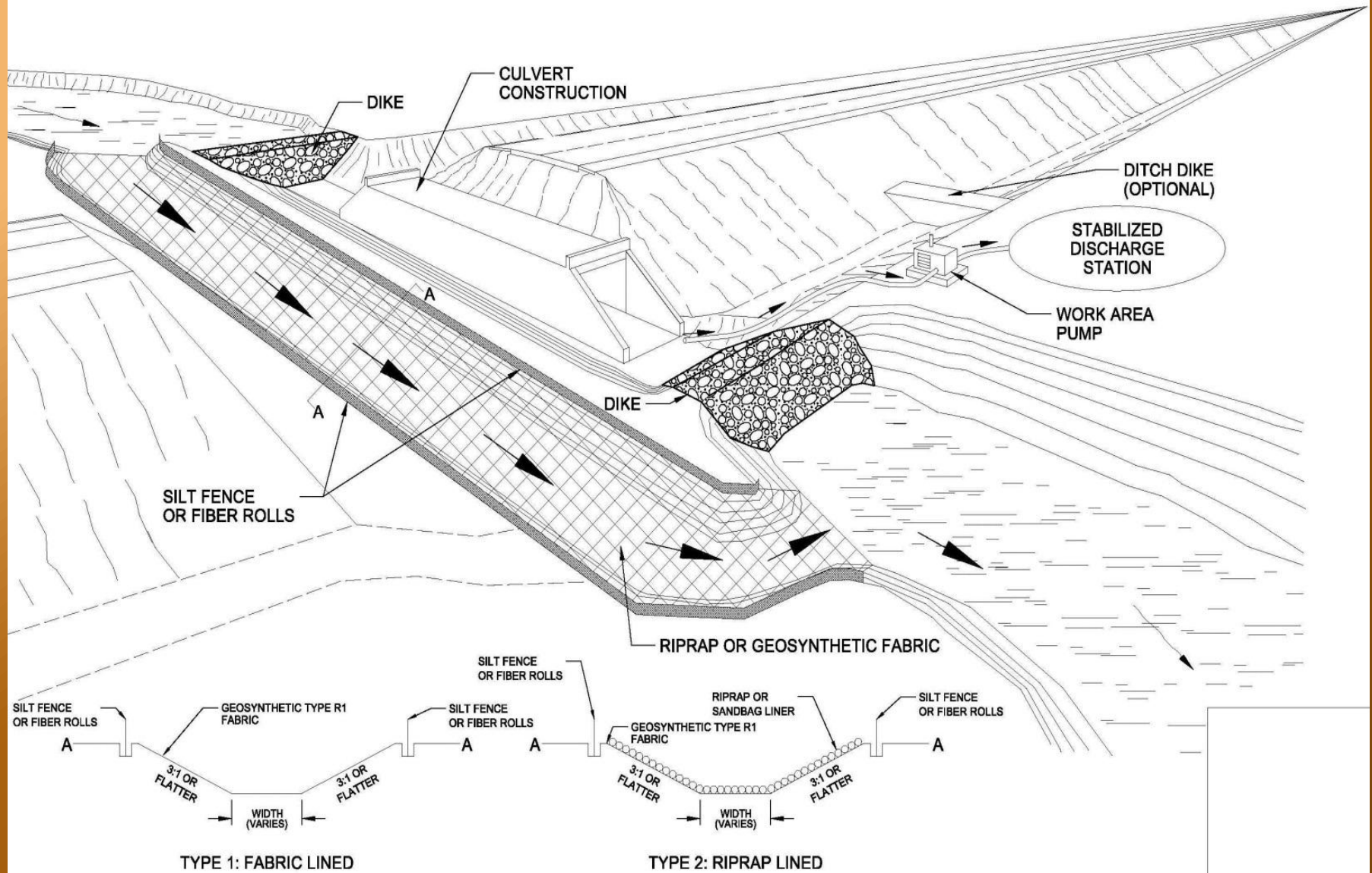
PIPE-BOX DIVERSION



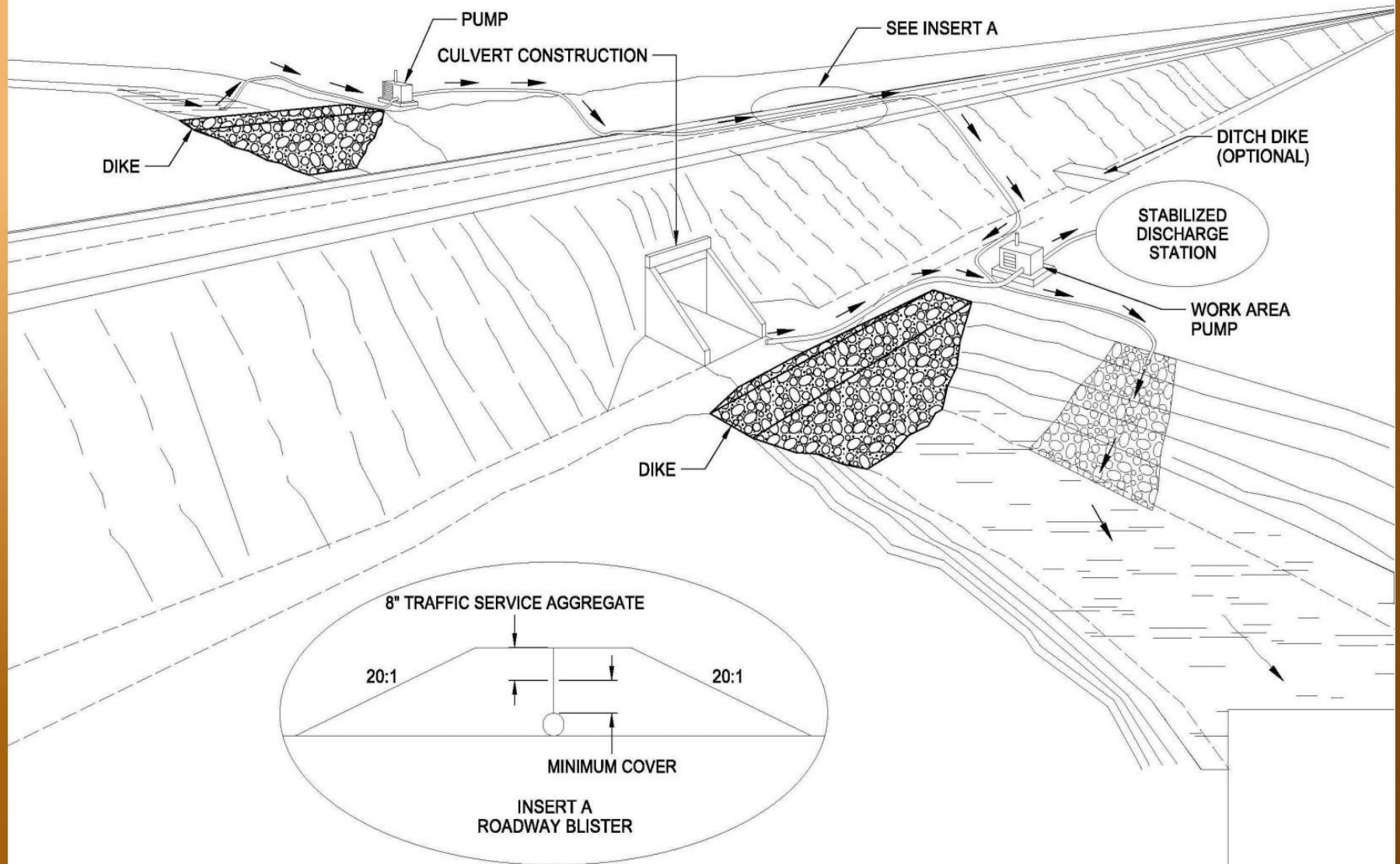
PIPE DIVERSION



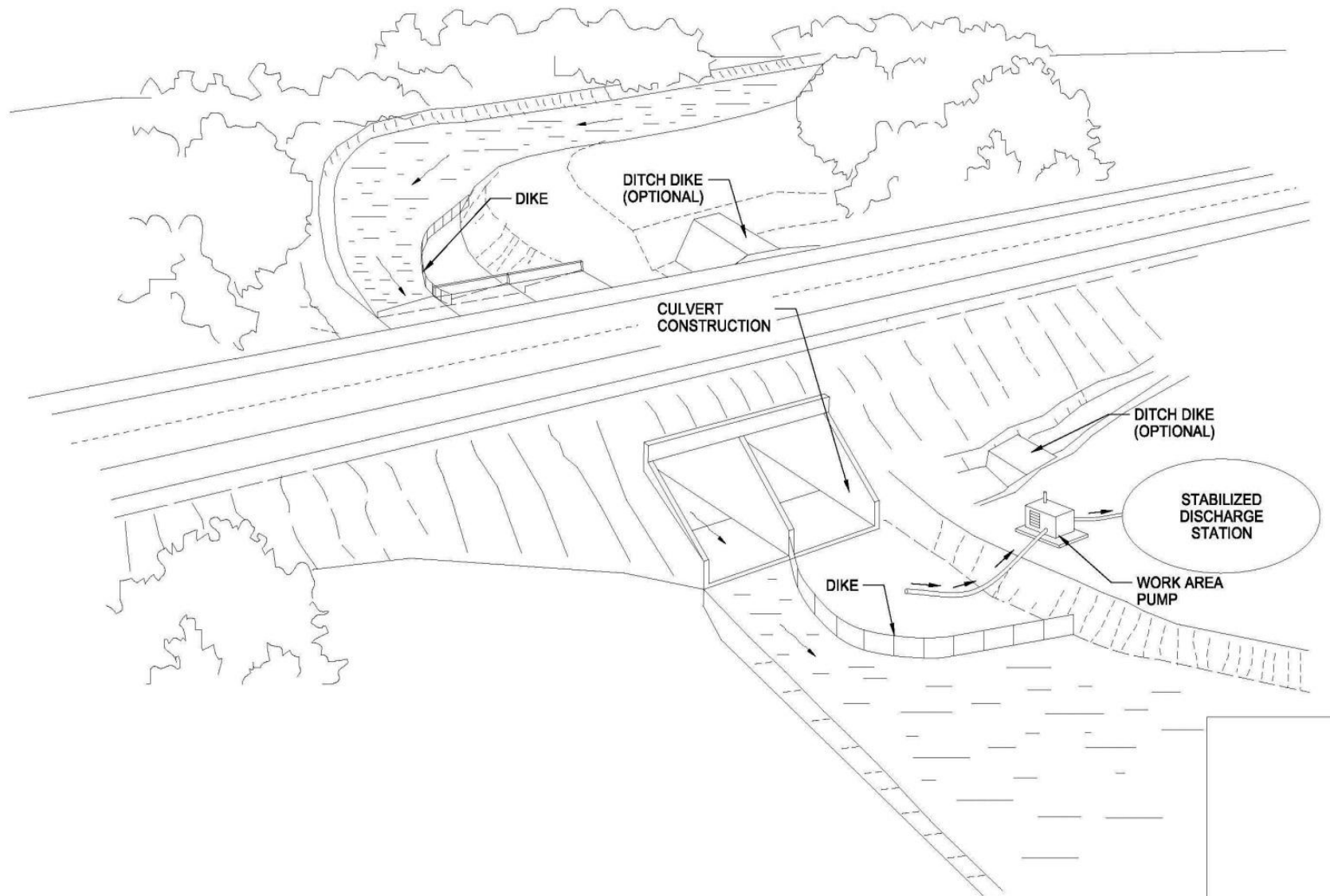
CHANNEL DIVERSION



PUMP DIVERSION



BOX DIVERSION



Removal

Permanent ESCMs and
flow dissipation before
opening to flow

Flow dissipation

Remove individual
pieces in correct order



Removal

Do not start removal until complete

Remove all materials used to construct diversion

Do not wait to remove diversion once work within the channel is complete

Includes placement of riprap and permanent ESCMS

Restore diversion area to preexisting condition

Basis of Payment

Pay Item = Temporary
Stream Diversion

Pay Unit = Each

75% paid upon
installation

Last 25% upon removal
and restoration



Basis of Payment

Include cost of installation, maintenance and removal

Including traffic control and ESCMs

SP 03(14) does not apply to ESCMs for stream diversions



Questions?

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